

Notice of Availability

Applicant Aid for Biotechnology Computer Readable Form (CRF)
Sequence Listings Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (sequence rules: 37 CFR 1.821 through 1.825). (Final rules were published in the Federal Register (55 FR 18230) on May 1, 1990, and in the PTO Official Gazette (1114 Off.Gaz.PatOffice 29) on May 15, 1990.)

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software will be available via computer downloading (details below). Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the PTO Official Gazette.

The software can be accessed/requested in the following locations:

- Dial-up access to the Patent and Trademark Office Bulletin
 Board System.
 Phone number: 703-305-8950
 Cost: Free-of-charge
- 2) Dial-up access through the Internet. FTP site: ftp.uspto.gov Login as "anonymous". Software is in directory /pub/checker Cost: Free-of-charge
- 3) For diskette copies, telephone requests to 703-306-2600. Cost: \$25.00

For Further Information Contact: Meredith Beckhardt at 703-308-4212.

#1-

RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831A

DATE: 05/09/96 TIME: 16:30:36

INPUT SET: S9275.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

```
Corrected Diskette Noted
                                       SEQUENCE LISTING
 1
 2
 3
     (1)
            General Information:
 4
 5
          (i) APPLICANT: Hewick, Rodney M.
 6
                         Wang, Jack H.
 7
                         Wozney, John M.
                         Celeste, Anthony J.
 8
 9
         (ii) TITLE OF INVENTION: BONE AND CARTILAGE INDUCTIVE PROTEINS
10
11
        (iii) NUMBER OF SEQUENCES: 44
12
13
         (iv) CORRESPONDENCE ADDRESS:
14
               (A) ADDRESSEE: Legal Affairs - Genetics Institute, Inc.
15
16
               (B) STREET: 87 CambridgePark Drive
17
               (C) CITY: Cambridge
18
               (D) STATE: MA
19
               (E) COUNTRY: USA
20
               (F) ZIP: 02140
21
22
          (v) COMPUTER READABLE FORM:
23
               (A) MEDIUM TYPE: Floppy disk
24
               (B) COMPUTER: IBM PC compatible
               (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25
               (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
26
27
         (vi) CURRENT APPLICATION DATA:
28
               (A) APPLICATION NUMBER: US 08/319,831
29
30
               (B) FILING DATE: 06-OCT-1994
31
               (C) CLASSIFICATION:
32
       (viii) ATTORNEY/AGENT INFORMATION:
33
34
               (A) NAME: Kapinos, Ellen J.
35
               (B) REGISTRATION NUMBER: 32,245
36
               (C) REFERENCE/DOCKET NUMBER: GI 5182A-DIV
37
38
         (ix) TELECOMMUNICATION INFORMATION:
39
               (A) TELEPHONE: (617) 498-8622
40
               (B) TELEFAX: (617) 876-5851
41
```

ERRORED SEQUENCES FOLLOW:

RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831A

DATE: 05/09/96 TIME: 16:30:38

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(2) INFORMATION FOR SEQ ID NO:5:
      144
      145
      146
                 (i) SEQUENCE CHARACTERISTICS:
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      147
                      (A) LENGTH: 80 base pairs
                      (B) TYPE: nucleic acid
      148
      149
                      (C) STRANDEDNESS: double
      150
                      (D) TOPOLOGY: linear
      151
                (ii) MOLECULE TYPE: DNA (genomic)
      152
      153
      154
               (iii) HYPOTHETICAL: NO
      155
                (iv) ANTI-SENSE: NO
      156
      157
      158
                (vi) ORIGINAL SOURCE:
                      (A) ORGANISM: Bos taurus
      159
      160
               (vii) IMMEDIATE SOURCE:
      161
      162
                      (B) CLONE: acc30
      163
              (viii) POSITION IN GENOME:
      164
                      (C) UNITS: bp
      165
      166
                (ix) FEATURE:
      167
                      (A) NAME/KEY: CDS
      168
      169
                      (B) LOCATION: 25..57
      170
                (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
                                                                                more up to this
      171
      172
            GGATCCGCGT GCTGTGCTCC GACC AAG CTG AGC GCC ACC TCC GTG CTC TAC 🦪
      173
      174
      175
                                        Lys Leu Ser Ala Thr Ser Val Leu Tyr
      176
                                                           5
      177
                                                                                       80
      178
            TAC GAC AGCAGCAACA ATGTAATTCT AGA
      179
            Tyr Asp
      180
             10
      181
      196
            (2) INFORMATION FOR SEQ ID NO:7:
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      198
                 (i) SEQUENCE CHARACTERISTICS:
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                      (A) LENGTH: 199 base pairs
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                      (B) TYPE: nucleic acid
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                      (C) STRANDEDNESS: double
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                      (D) TOPOLOGY: linear
      203
      204
                (ii) MOLECULE TYPE: DNA (genomic)
      205
      206
               (iii) HYPOTHETICAL: NO
      207
      208
                (vi) ORIGINAL SOURCE:
      209
                      (A) ORGANISM: Bos taurus
```

RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831A

DATE: 05/09/96 TIME: 16:30:40

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210
211
        (vii) IMMEDIATE SOURCE:
                (A) LIBRARY: Bovine genomic
212
                (B) CLONE: Lambda 9800-10
213
214
        (viii) POSITION IN GENOME:
215
                (C) UNITS: bp
216
217
          (ix) FEATURE:
218
219
                (A) NAME/KEY: exon
220
                (B) LOCATION: 30..199
221
         (ix) FEATURE:
222
                (A) NAME/KEY: intron
223
                (B) LOCATION: 1..29
224
225
         (ix) FEATURE:
226
227
                (A) NAME/KEY: CDS
                                                                       mued up one live,
                (B) LOCATION: 30..179
228
229
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
230
                                                                        amino ocide should
231
                                                                        le aliqued under codons
     TGCCCGCTGC CCCCTCCCGC CCCCGCCAG GTG CAC CTG CTG AAG CCG CAC /
232
233
     GCG 53 -
                                                                      Val His Leu Leu Lys
234
235
236
     GTC CCC AAG GCG TGC TGC GCG CCC ACC AAG CTG AGC GCC ACT TCC GTG 🧷
237
238
     Val Pro Lys Ala Cys Cys Ala Pro Thr Lys Leu Ser Ala Thr Ser Val
239
240
                           15
241
     CTC TAC TAC GAC AGC AGC AAC AAC GTC ATC CTG CGC AAG CAC CGC AAC
242
243
         149~
     Leu Tyr Tyr Asp Ser Ser Asn Asn Val Ile Leu Arg Lys His Arg Asn
244
                                                                40
245
                       30
246
     ATG GTG GTC CGC GCC TGC GGC TGC CAC TGA GGCCCCAACT CCACCGGCAG
247
248
           199
249
     Met Val Val Arg Ala Cys Gly Cys His
250
251
     (2) INFORMATION FOR SEQ ID NO:8:
252
253
254
             (i) SEQUENCE CHARACTERISTICS:
                                                 49 av stour-is ore ?
255
                   (A) LENGTH: 50 amino acids
256
                   (B) TYPE: amino acid
257
                   (D) TOPOLOGY: linear
258
259
           (ii) MOLECULE TYPE: protein
260
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
261
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831A

DATE: 05/09/96 TIME: 16:30:43

```
262
263
     Val His Leu Leu Lys Pro His Ala Val Pro Lys Ala Cys Cys Ala Pro
264
                        5
                                             10
       1
265
266
     Thr Lys Leu Ser Ala Thr Ser Val Leu Tyr Tyr Asp Ser Ser Asn Asn
267
268
     Val Ile Leu Arg Lys His Arg Asn Met Val Val Arg Ala Cys Gly Cys
269
270
271
272
     His
273
274
275
276
277
      (2) INFORMATION FOR SEQ ID NO:9:
278
279
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280
                (B) TYPE: nucleic acid
281
                (C) STRANDEDNESS: double
282
283
                (D) TOPOLOGY: linear
284
          (ii) MOLECULE TYPE: DNA (genomic)
285
286
287
         (iii) HYPOTHETICAL: NO
288
         (vi) ORIGINAL SOURCE:
289
290
                (A) ORGANISM: Bos taurus
291
292
         (vii) IMMEDIATE SOURCE:
293
                (A) LIBRARY: Bovine genomic
294
                (B) CLONE: Lambda 9800-10
295
        (viii) POSITION IN GENOME:
296
297
                (C) UNITS: bp
298
          (ix) FEATURE:
299
300
                (A) NAME/KEY: exon
                (B) LOCATION: 51..161
301
302
303
          (ix) FEATURE:
304
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305
                (B) LOCATION: 1..50
306
307
          (ix) FEATURE:
308
                (A) NAME/KEY: intron
309
                (B) LOCATION: 162..172
310
311
          (ix) FEATURE:
312
                (A) NAME/KEY: CDS
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                (B) LOCATION: 51..161
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831A

DATE: 05/09/96 TIME: 16:30:45

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314
315
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
316
317
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318
     TGG
           56 ~
319
320
321
     GTC ATC GCC CCC CAA GGC TAC TCA GCC TAT TAC TGT GAA GGG GAG TGC 🥕
322
     Val Ile Ala Pro Gln Gly Tyr Ser Ala Tyr Tyr Cys Glu Gly Glu Cys
323
324
                5
                                    10
325
     TCC TTC CCG CTG GAC TCC TGC ATG AAC GCC ACC AAC CAC GCC ATC CTG 🥏
326
327
     Ser Phe Pro Leu Asp Ser Cys Met Asn Ala Thr Asn His Ala Ile Leu
328
329
                                25
330
     CAG TCC CTG GTCAGTACCT C
                                                                     172
331
332
     Gln Ser Leu
333
334
     (2) INFORMATION FOR SEQ ID NO:11:
355
356
357
           (i) SEQUENCE CHARACTERISTICS:
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359
                (B) TYPE: nucleic acid
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                (C) STRANDEDNESS: double
                (D) TOPOLOGY: linear
361
362
          (ii) MOLECULE TYPE: DNA (genomic)
363
364
         (iii) HYPOTHETICAL: NO
365
366
367
         (vi) ORIGINAL SOURCE:
368
                (A) ORGANISM: Bos taurus
369
370
         (vii) IMMEDIATE SOURCE:
                (A) LIBRARY: Bovine genous
371
372
                (B) CLONE: Lambda 9800-10
373
374
        (viii) POSITION IN GENOME:
375
                (C) UNITS: bp
376
377
          (ix) FEATURE:
378
                (A) NAME/KEY: exon
379
                (B) LOCATION: 20..99
380
381
          (ix) FEATURE:
                (A) NAME/KEY: intron
382
383
                (B) LOCATION: 1..19
384
         (ix) FEATURE:
385
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831A

DATE: 05/09/96 TIME: 16:30:47

```
(A) NAME/KEY: intron
      386
      387
                      (B) LOCATION: 100..119
      388
      389
                (ix) FEATURE:
      390
                      (A) NAME/KEY: CDS
      391
                      (B) LOCATION: 22..99
      392
      393
                (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
      394
      395
            CCCTTGCGTG TCCCCGCAGA C GAC GTC CAC GGC TCC CAC GGC CGG CAG
      396
-->
      397
            GTG 51 ____
      398
                                     Asp Val His Gly Ser His Gly Arg Gln Val
                                                                               10
      399
      400
            TGC CGT CGG CAC GAG CTG TAC GTG AGC TTC CAG GAC CTG GGC TGG CTG
      401
      402
            Cys Arg Arg His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Leu
      403
      404
      405
            GTGAGTTCCG ACTCTCCTTT
      406
      407
      425
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      427
                 (i) SEQUENCE CHARACTERISTICS:
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                      (B) TYPE: nucleic acid
      429
                      (C) STRANDEDNESS: double
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      431
                      (D) TOPOLOGY: circular
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      433
                (ii) MOLECULE TYPE: cDNA to mRNA
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      435
               (iii) HYPOTHETICAL: NO
      436
                (vi) ORIGINAL SOURCE:
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      438
                      (A) ORGANISM: Homo sapiens
                      (F) TISSUE TYPE: Human Heart
      439
      440
      441
               (vii) IMMEDIATE SOURCE:
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                      (A) LIBRARY: Human heart cDNA library stratagene catalog
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                      (B) CLONE: hH38
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              (viii) POSITION IN GENOME:
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      446
                      (C) UNITS: bp
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      448
                (ix) FEATURE:
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                      (A) NAME/KEY: CDS
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                      (B) LOCATION: 8..850
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      452
                (ix) FEATURE:
                      (A) NAME/KEY: mat_peptide
      453
      454
                      (B) LOCATION: 427..843
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507

RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831A

DATE: 05/09/96 TIME: 16:30:50

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		· .	A) N	AME/	KEY: ION:	_									5
	(xi) SE	OUEN	CE D	ESCR:	IPTI	ON:	SEO	ID N	0:13	:				ATC Though
	,	,	•												
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49		Glu	Pro	His	Trp	I.vs	Glu	Phe	Ara	Phe	Asp	Leu	Thr	Gln	Ile
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97		GGG	GAG	GCG	GTC	ACA	GCT	GCG	GAG	TTC	CGG	ATT	TAC	AAG	GTG
	Ala	Gly	Glu	Ala	Val	Thr	Ala	Ala	Glu	Phe	Arg	Ile	Tyr	Lys	Val
-12	25				-120	0				-11	5				-110
CCC	AGC	ATC	CAC	CTG	CTC	AAC	AGG	ACC	СТС	CAC	GTC	AGC	ATG	TTC	CAG 🔈
145	; 														
Pro	Ser	Ile	His			Asn	Arg	Thr			Val	Ser	Met	Phe -95	Gln
				-10	•				-10	U				- 33	
GTO	GTC	CAG	GAG	CAG	TCC	AAC	AGG	GAG	TCT	GAC	TTG	TTC	TTT	TTG	GAT
193	} . Val	a1 n	a 1	01 n	502	X cm	N ===	a 1	505	N an	T 011	Dho	Pho	T 013). ·
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CTT 241	CAG	ACG	CTC	CGA	GCT	GGA	GAC	GAG	GGC	TGG	CTG	GTG	CTG	GAT	GTC
	ı Gln	Thr	Leu	Arq	Ala	Gly	Asp	Glu	Gly	Trp	Leu	Val	Leu	Asp	Val
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Thi	Ala	Ala	Ser	Asp	Cys		Leu	Leu	Lys	Arg		Lys	Asp	Leu	Gly
	-60					-55					-50				
СТС	CGC	CTC	TAT	GTG	GAG	ACT	GAG	GAT	GGG	CAC	AGC	GTG	GAT	CCT	GGC
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CTC 385	GCC	GGC	CTG	CTG	GGT	CAA	CGG	GCC	CCA	CGC	TCC	CAA	CAG	CCT	TTC
	Ala	Glv	Leu	Leu	Glv	Gln	Ara	Ala	Pro	Arq	Ser	Gln	Gln	Pro	Phe
		-2		-25	-4		- 3		-20					-15	
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433	GTC	ACT	TTC	TTC	AGG	GCC	AGT	CCG	AGT	CCC	ATC	CGC	ACC	CUT	CGG
	Val	Thr	Phe	Phe	Arg	Ala	Ser	Pro	Ser	Pro	Ile	Arg	Thr	Pro	Arg
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831A

DATE: 05/09/96 TIME: 16:30:52

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508	GCA	GTG	AGG	CCA	CTG	AGG	AGG	AGG	CAG	CCG	AAG	AAA	AGC	AAC	GAG	CTG				
509	481																			
510	Ala	Val	Arg	Pro	Leu	Arg	Arg	Arg	Gln	Pro	Lys	Lys	Ser	Asn	Glu	Leu				
511		5					10					15								
512																				
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515	Pro	Gln	Ala	Asn	Arg	Leu	Pro	Glv	Ile	Phe	Asp	Asp	Val	His	Gly	Ser				
516	20				5	25					30	•			•	35				
517																				
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519	577																			
520		Glv	Ara	Gln	Val	Cvs	Arg	Ara	His	Glu	Leu	Tvr	Val	Ser	Phe	Gln				
521		0_j	9	U	40	0,2	9	9		45		- 1 -			50					
522															•					
523	GAC	СТТ	GGC	таа	СТС	GAC	TGG	GTC	ΔТС	GCC	CCC	CAA	GGC	TAC	TCA	GCC				
524	625	U 11	000	100	010	one		0.0		-	-	0	-							
525		Leu	G] v	Trn	T.011	Agn	Trp	Val	Tla	Δla	Pro	Gln	G] v	Tur	Ser	Δla				
526	ASP	пец	GLY	55	Lea	ASP	11p	Val	60	ALG		01	O _T y	65	DCI	n_u				
527				33					00		-			0.5						
528	πаπ	ጥልሮ	ጥርጥ	GAG	GGG	GAG	TGC	ሞሮሮ	ጥጥር	CCG	CTG	GAC	דר כ	ጥርር	ΔΨС	AAC				
529	673	IAC	101	GAG	GGG	GAG	IGC	100	110	CCG	CIG	OAC	100	100	AIG	AAC				
530		Тиг	Cue	Glu	Gl v	Glu	Cys	Sor	Dha	Dro	LAU	Nen	Sar	Cue	Mat	λen				
531	TAT	туг	70	GIU	СТУ	GIU	Cys	75	FIIE	PIU	ьеп	ASP	80	Cys	Mec	ASII				
532			, 0					/3					00							
533	ccc	N.C.C	224	as a	ccc	አጥሮ	CTG	CAC	TOO	CTIC	OTC.	CAC	CTC	አሞር	λλG	ממא				
		ACC	AAC	CAC	GCC	AIC	CIG	CAG	100	CIG	GIG	CAC	CIG	AIG	AAG	CCA				
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536		85					90					93								
537		aa s	ama	aaa		000	maa	mam	003	000	3 CC	220	ama	100	000	X 00				
538		GCA	GTC	CCC	AAG	GCG	TGC	TGT	GCA	CCC	ACC	AAG	CIG	AGC	GCC	ACC				
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540		АТА	vaı	Pro	гÀг		Cys	Cys	Ата	PIO		гуз	Leu	per	ATG					
541	100					105					110					115				
542	mam	ama	ama	mag	m » m	a.a		100			ama	3 ma	ama.	000		030				
543		GTG	CTC	TAC	TAT	GAC	AGC	AGC	AAC	AAC	GTC	ATC	CTG	CGC	AAG	CAC				
544	817	11-1	T	M	m		~~		1	3 ~ ~	wal	T3.0	Γ	1	T ***	ui a				
545	ser	var	Leu	Tyr		ASP	Ser	Ser	ASII		vат	TTE	Leu	Arg	130	птъ				
546					120					125					130					
547	000		3 000	ama	ama		000	таа	000	maa	a aa									
548							GCC		GGC	TGC	CAC	/_				/		_	, /.	
549					AGCCC		87		al	a	77 i ~				_	la.	ri g	w	(He	
550	Arg	ASN	мес		vaı	гая	Ala	Cys	_	Cys	птѕ				J	V				
551				135					140								M G	Y	u	
552	m							maaa		10ma/							Λ ⁽	1 -		
553							TGG		3 600	CTGC	JAGA					,	d)	/0		
554	GGC	AGAAA	AACC	CTTA	AATGO		93	50								/		# ~	/	19
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556							STCAC		e CC'	rCAC'	rcrc	مـ .						_ 1. 8		
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558	a===			nm.c							_						75	" ()"		,
559	CTTC	CTGGC	.' AA	rrc													7		Eules)
560																		•	-	

SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/08/319,831A*

DATE: 05/09/96 TIME: 16:30:54

Line	Error	Original Text
147 178	Entered (80) and Calc. Seq. Length (29) differ # of Sequences for line conflicts w/ running total	(A) LENGTH: 80 base pairs TAC GAC AGCAGCAACA ATGTAATTCT AGA
199 233	Entered (199) and Calc. Seq. Length (3) differ # of Sequences for line conflicts w/ running total	(A) LENGTH: 199 base pairs GCG 53
255	Entered (50) and Calc. Seq. Length (49) differ	(A) LENGTH: 50 amino acids
280 318	Entered (172) and Calc. Seq. Length (23) differ # of Sequences for line conflicts w/ running total	(A) LENGTH: 172 base pairs TGG 56
331 358	# of Sequences for line conflicts w/ running total Entered (119) and Calc. Seq. Length (23) differ	CAG TCC CTG GTCAGTACCT C (A) LENGTH: 119 base pairs
397 406	# of Sequences for line conflicts w/ running total # of Sequences for line conflicts w/ running total	GTG 51 GTGAGTTCCG ACTCTCCTTT
428 549	Entered (1003) and Calc. Seq. Length (60) differ # of Sequences for line conflicts w/ running total	(A) LENGTH: 1003 base pairs TGAGTCAGCCCGCCCAGCCC 870
554 557	# of Sequences for line conflicts w/ running total # of Sequences for line conflicts w/ running total	GGCAGAAAACCCTTAAATGC 930 GGTGCCTACTTCCTGTCAGG 990